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PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	10/776674-Conf. #3484
		Filing Date	February 11, 2004
		First Named Inventor	Rudolf FAUST
		Art Unit	1713
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	1	Attorney Docket Number	ULI-002

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Copies of References Cited (A24-A37, B1-B17, C1-C17, D1-D17 & E1-20) Certificate of Mailing Return Receipt Postcard
<div>Remarks</div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	LAHIVE & COCKFIELD, LLP		
Signature			
Printed name	Danielle L. Herritt		
Date	September 29, 2005	Reg. No.	43,670



Docket No.: ULI-002
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Rudolf Faust *et al.*

Application No.: 10/776674

Confirmation No.: 3484

Filed: February 11, 2004

Art Unit: 1713

For: COPOLYMERS COMPRISING OLEFIN
AND PROTECTED OR UNPROTECTED
HYDROXYSTYRENE UNITS

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Applicants would also like to draw the Examiner's attention to the following applications:

<i>Application No.</i>	<i>Inventor</i>	<i>Filing Date</i>
10/776,681	Faust, <i>et al.</i>	02-11-2004
10/902,280	Faust, <i>et al.</i>	07-29-2004
10/872,134	Faust, <i>et al.</i>	06-18-2004

This Information Disclosure Statement is filed more than three months after the U.S. filing date, but before the mailing date of the first Office Action on the merits (37 CFR 1.97(b)(3)).

Copies of references A24-E20 listed on the attached PTO/SB/08 are attached hereto. Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 12-0080, under Order No. ULI-002.

Dated: September 29, 2005

Respectfully submitted,

By 

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PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/776674
				Filing Date	February 11, 2004
				First Named Inventor	Rudolf FAUST
				Art Unit	1713
				Examiner Name	Not Yet Assigned
Sheet	1	of	5	Attorney Docket Number	ULI-002

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	US-6,750,267	06-15-2004	Faust <i>et al.</i>	
	A2	US-6,469,115	10-22-2002	Faust <i>et al.</i>	
	A3	US-6,268,451	07-31-2001	Faust <i>et al.</i>	
	A4	US-6,194,597	02-27-2001	Faust <i>et al.</i>	
	A5	US-6,051,657	04-18-2000	Faust <i>et al.</i>	
	A6	US-6,046,281	04-04-2000	Faust <i>et al.</i>	
	A7	US-6,025,437	02-15-2000	Hirahara <i>et al.</i>	
	A8	US-5,981,785	11-09-1999	Faust <i>et al.</i>	
	A9	US-5,777,044	07-07-1998	Faust	
	A10	US-5,700,625	12-23-1997	Sato <i>et al.</i>	
	A11	US-5,690,861	11-25-1997	Faust	
	A12	US-5,677,386	10-14-1997	Faust	
	A13	US-5,665,837	09-09-1997	Faust <i>et al.</i>	
	A14	US-5,637,647	06-10-1997	Faust	
	A15	US-5,451,647	09-19-1995	Faust <i>et al.</i>	
	A16	US-5,428,111	06-27-1995	Faust <i>et al.</i>	
	A17	US-5,122,572	06-16-1992	Faust <i>et al.</i>	
	A18	US-4,965,340	10-23-1990	Matsuda	
	A20	US-4,910,321	03-20-1990	Faust <i>et al.</i>	
	A21	US-4,568,732	02-04-1986	Kennedy <i>et al.</i>	
	A22	US-4,182,818	01-08-1980	Tung <i>et al.</i>	
	A23	US-4,129,557	12-12-1978	Kudo <i>et al.</i>	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	A24	WO 05/012373	02-10-2005	Scimed Life Systems, Inc.		
	A25	WO 04/113400	12-29-2004	Scimed Life Systems, Inc.		
	A26	WO 03/011596	02-13-2003	BASF Drucksysteme GmbH		
	A27	WO 02/28924	04-11-2002	Dow Corning Corp <i>et al.</i>		
	A28	WO 01/87999	11-22-2001	Dow Corning Corp <i>et al.</i>		
	A29	WO 00/63256	10-26-2000	Dow Corning Corp <i>et al.</i>		
	A30	WO 00/32654	06-08-2000	Dow Corning Corp <i>et al.</i>		
	A31	WO 00/32609	06-08-2000	Dow Corning Corp <i>et al.</i>		
	A32	EP 0 931 581	07-28-1999	Ebara Corporation		
	A33	WO 99/24480	05-20-1999	Dow Corning Corp <i>et al.</i>		
	A34	WO 99/09074	02-25-1999	Infineum Holdings B.V.		
	A35	JP 11176750 abstract	07-02-1999	International Business Machines Coporation		X
	A36	EP 0 877 294	11-11-1998	Nippon Zeon Co., Ltd.		
	A37	WO 95/17436	06-29-1995	University of Massachusetts Lowell		

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Substitute for form 1449A/B/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> (Use as many sheets as necessary)				Complete if Known	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B1	WO 93/02110	02-04-1993	Exxon Chemical Patents, Inc. <i>et al.</i>		
	B2	EP 0 379 250 A	07-25-1990	Stamcarbon B.V.		
	B3	JP 63049228 abstract	03-02-1988	Ebara Res. Co. Ltd.		X
	B4	EP 0 024 120	02-25-1981	Sumitomo Chemical Co. Ltd.		
	B5	JP 50092877	07-24-1975	Maruzen Oil Co. Ltd.		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	B6	ALLEN, RD, <i>et al.</i> Preparation of High Purity, Anionic Polymerization Grade Alkyl Methacrylate Monomers. <i>Polymer Bull.</i> , 1986, 15:127-34.	
	B7	ASTHANA, A, <i>et al.</i> Star-block Polymers of Multiple Polystyrene-b-polyisobutylene Arms Radiating from a Polydivinylbenzene Core. <i>J. Polymer. Sci. Part A: Polym. Chem.</i> , 1999, 37:2235-43.	
	B8	AUSCHRA, C, <i>et al.</i> Synthesis of Block Copolymers with Poly(methyl methacrylate): P(B-b-MMA), P(EB-b-MMA), P(S-b-B-b-MMA) and P(S-b-EB-b-MMA). <i>Polymer Bull.</i> , 1993, 30:257-64.	
	B9	BAE, YC, <i>et al.</i> Halogen-free Polyisobutylene by in situ Methylation of Living Polyisobutylene Using Dimethyl Zinc. <i>Polymer Bull.</i> , 2000, 44:453-59.	
	B10	BAE, YC, <i>et al.</i> Addition Reaction of Living Polyisobutylene to "Double" Diphenylethylenes. Synthesis of 1,1-Diphenylethylene-Functionalized Polyisobutylene Macromonomers. <i>Macromolecules</i> , 1998, 31:9379-83.	
	B11	BAE, YC, <i>et al.</i> Living Coupling Reaction in Living Cationic Polymerization. 2. Synthesis and Characterization of Amphiphilic A ₂ B ₂ Star-Block Copolymer: Poly[bis(isobutylene)-star-bis(methyl vinyl ether)]. <i>Macromolecules</i> , 1998, 31:2480-87.	
	B12	CHEN, X, <i>et al.</i> Block Copolymers of Styrene and p-acetoxystyrene with Polyisobutylene by Combination of Living Carbocationic and Atom Transfer Radical Polymerizations. <i>Macromol. Chem., Rapid Commun.</i> , 1998, 19:585-89.	
	B13	CHUNG, TC, <i>et al.</i> U.S. Patent Application Publication No. 2001/0047069, pub. Nov. 29, 2001	
	B14	COCA, S, <i>et al.</i> Block Copolymers by Transformation of "Living" Carbocationic into "Living" Radical Polymerization. II. ABA-type Block Copolymers Comprising Rubbery Polyisobutylene Middle Segment. <i>J. Polymer. Sci. Part A: Polym. Chem.</i> , 1997, 35(16):3595-3601.	
	B15	FALKENHAGEN, J, <i>et al.</i> Characterization of Block Copolymers by Liquid Adsorption Chromatography at Critical Conditions. 1. Diblock Copolymers. <i>Macromolecules</i> , 2000, 33:3687-93.	
	B16	FAUST, R, <i>et al.</i> Living Carbocationic Polymerization. III. Demonstration of the Living Polymerization of Isobutylene. <i>Polym. Bull.</i> , 1986, 15:317-23.	
	B17	FELDTHUSEN, J, <i>et al.</i> Synthesis of Linear and Star-Shaped Block Copolymers of Isobutylene and Methacrylates by combination of Living Cationic and Anionic Polymerizations. <i>Macromolecules</i> , 1998, 31:578-85.	

Examiner Signature	Date Considered
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	C1	FELDTUSEN, J, <i>et al.</i> Stable Carbanions by Quantitative Metalation on Cationically Obtained Diphenylvinyl and Diphenylmethoxy Compounds: New Initiators for Living Anionic Polymerizations. <i>Macromolecules</i> , 1997, 30 :6989-93.		
	C2	FISHBEIN, L, <i>et al.</i> The Relationship of Structure to Some Physical and Mechanical Properties of Poly (vinyl alkyl ethers). <i>Makromol Chem.</i> , 1961, 48:221-28.		
	C3	FODOR, Z, <i>et al.</i> Polyisobutylene-based Thermoplastic Elastomers. II. Synthesis and Characterization of Poly(<i>p</i> -methylstyrene- <i>block</i> -isobutylene- <i>block</i> - <i>p</i> -methylstyrene) Triblock Copolymers. <i>J. Macromol. Sci., Pure Appl. Chem.</i> , 1995, A32(3):575-91.		
	C4	FODOR, Z, <i>et al.</i> Synthetic Applications of Non-polymerizable Monomers in Living Carbocationic Polymerization. <i>Polymer Preprints</i> , 1994, 35(2): 492-93.		
	C5	FODOR, Z, <i>et al.</i> Living Carbocationic Polymerization of <i>p</i> -methylstyrene and Sequential Block Copolymerization of Isobutylene with <i>p</i> -Methylstyrene. <i>J. Macromol. Sci., Pure Appl. Chem.</i> , 1994, A31(12):1985-2000.		
	C6	GYOR, M; <i>et al.</i> Polyisobutylene-based Thermoplastic Elastomers. I. Synthesis and Characterization of Polystyrene-Polyisobutylene-Polystyrene Triblock Copolymers. <i>J. Macromol Sci.</i> , 1994, A31(12):2055-65.		
	C7	GYOR, M, <i>et al.</i> Living Carbocationic Polymerization of Isobutylene with Blocked Bifunctional Initiators in the Presence of di- <i>tert</i> -butylpyridine as a Proton Trap. <i>J. Macromol. Sci., Pure Appl. Chem.</i> , 1992, A29(8):639-53.		
	C8	HADJIKYRIACOU, S; <i>et al.</i> Living Coupling Reaction in Living Cationic Polymerization. 3. Coupling Reaction of Living Polyisobutylene Using Bis(furanyl) Derivatives. <i>Macromolecules</i> 2000, 33:730-33.		
	C9	HADJIKYRIACOU, S; <i>et al.</i> Cationic Macromolecular Design and Synthesis Using Furan Derivatives. <i>Macromolecules</i> 1999, 32:6393-99.		
	C10	HADJIKYRIACOU, S, <i>et al.</i> Amphiphilic Block Copolymers by Sequential Living Cationic Polymerization: Synthesis and Characterization of Poly(isobutylene- <i>b</i> -methyl vinyl ether) <i>Macromolecules</i> , 1996, 29:5261-67.		
	C11	HADJIKYRIACOU, S, <i>et al.</i> Living Cationic Homopolymerization of Isobutyl Vinyl Ether as Sequential Block Copolymerization of Isobutylene with Isobutyl Vinyl Ether. Synthesis and Mechanistic Studies. <i>Macromolecules</i> , 1995, 28:7893-7900.		
	C12	HADJIKYRIACOU, S, <i>et al.</i> Synthetic Applications of Nonpolymerizable Monomers in Living Cationic Polymerization: Functional Polyisobutylenes by End-quenching. <i>J. Macromol. Sci., Pure Appl. Chem.</i> 1995, A32(6):1137-53.		
	C13	HIGASHIMURA, T, <i>et al.</i> Living Cationic Polymerization of 4- <i>tert</i> -butoxystyrene and Synthesis of Poly(4-vinylphenol) with Narrow Molecular Weight Distribution. <i>Makromol. Chem., Suppl.</i> 1989, 15:127-36.		
	C14	HIRAI, A, <i>et al.</i> Polymerization of Monomers Containing Functional Groups Protected by Trialkylsilyl Groups. 1. Synthesis of Poly(4-vinylphenol) by Means of Anionic Living Polymerization. <i>Makromol. Chem., Rapid Commun.</i> , 1982, 3:941-46.		
	C15	HIRAO, A, <i>et al.</i> Polymerization of Monomers Containing Functional Groups Protected by Trialkylsilyl Groups. 5. Synthesis of Poly(20hydroxyethyl methacrylate) with a Narrow Molecular Weight Distribution by Means of Anionic Living Polymerization. <i>Macromolecules</i> , 1986, 19:1294-99.		
	C16	HSIEH, HL, <i>et al.</i> <u>Anionic Polymerization</u> . NY: Marcel Dekker, 1996, pp. 307-392, 447-605, and 641-684.		
	C17	JUNG, ME, <i>et al.</i> Generation of the Enolate of Acetaldehyde from Non-carbonyl Substances and C-alkylation, O-acylation and O-silylation. <i>Tetrahedron Lett.</i> , 1977, 43:3791-94.		

Examiner Signature		Date Considered	
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NON PATENT LITERATURE DOCUMENTS				
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	D1	KASZAS, G, <i>et al.</i> Quasiliving Carbocationic Polymerization. XII. Forced Ideal Copolymerization of Isobutylene with Styrene. <i>J. Macromol. Sci.-Chem.</i> , 1982-3, A18(9):1367-82.		
	D2	KASZAS, G, <i>et al.</i> Polyisobutylene-containing Block Polymers by Sequential Monomer Addition. II. Polystyrene-Polyisobutylene-Polystyrene Triblock Polymers: Synthesis, Characterization, and Physical Properties. <i>J. Polym. Sci., Polym. Chem. Ed.</i> , 1991, A29(1):427-35.		
	D3	KENNEDY, JP, <i>et al.</i> Polyisobutylene-containing Block Polymers by Sequential Monomer Addition. 8. Synthesis, Characterization, and Physical Properties of Poly(indene- <i>b</i> -isobutylene- <i>b</i> -indene) Thermoplastic Elastomers. <i>Macromolecules</i> , 1993, 26:429-35.		
	D4	KIM, MS, <i>et al.</i> Synthesis of Poly(ϵ -caprolactone- <i>b</i> -isobutylene) Diblock Copolymer and Poly(ϵ -caprolactone- <i>b</i> -isobutylene- <i>b</i> - ϵ -caprolactone) Triblock Copolymer. <i>Polym. Bull.</i> , 2002, 48(2), 127.		
	D5	KITAYAMA, T, <i>et al.</i> PMMA- <i>block</i> -polyisobutylene- <i>block</i> -PMMA Prepared with α,ω -dilithiated Polyisobutylene and its Characterization. <i>Polymer Bull.</i> , 1991, 26:513-20.		
	D6	KURIAN, J, Living Carbocationic Polymerization of p-halostyrenes and Synthesis of Novel Thermoplastic Elastomers. Ph.D. Thesis, The University of Akron., 1991.		
	D7	KWON, Y, <i>et al.</i> Synthesis and Characterization of Poly(isobutylene- <i>b</i> -pivalolactone) Diblock and Poly(pivalolactone- <i>b</i> -isobutylene- <i>b</i> -pivalolactone) Triblock Copolymers. <i>Macromolecules</i> , 2002, 35:3348.		
	D8	LEDWITH, A, <i>et al.</i> Absolute Reactivity in the Cationic Polymerization of Methyl and Other Alkyl Vinyl Ethers. <i>Polymer</i> , 1975, 16(1):31-37.		
	D9	LI, D, <i>et al.</i> Polyisobutylene-based Thermoplastic Elastomers. 3. Synthesis, Characterization, and Properties of Poly(α -methylstyrene- <i>b</i> -isobutylene- <i>b</i> - α -methylstyrene) Triblock Copolymers. <i>Macromolecules</i> , 1995, 28:4893-98.		
	D10	LI, D, <i>et al.</i> Living Carbocationic Sequential Block Copolymerization of Isobutylene with α -methylstyrene. <i>Macromolecules</i> , 1995, 28:1383-89.		
	D11	LUBNIN, AV, <i>et al.</i> Living Carbocationic Polymerization of Isobutyl Vinyl Ether and the Synthesis of Poly[isobutylene- <i>b</i> -(isobutyl vinyl ether)]. <i>J. Polymer. Sci. Part A: Polym. Chem.</i> , 1993, 31:2825-34.		
	D12	MARTINEZ-CASTRO, N, <i>et al.</i> Polyisobutylene Stars and Polyisobutylene- <i>block</i> -Poly(<i>tert</i> -Butyl Methacrylate) Block Copolymers by Site Transformation of Thiophene End-Capped Polyisobutylene Chain Ends. <i>Macromolecules</i> , 2003, 36:6985-94.		
	D13	MIYAMOTO, M, <i>et al.</i> Living Polymerization of Isobutyl Vinyl Ether with the Hydrogen Iodide/Iodine Initiating System. <i>Macromolecules</i> , 1984, 17(3):265-68.		
	D14	MORI, H, <i>et al.</i> Protection and Polymerization of Functional Monomers. 23. Synthesis of a Well-defined Poly(2-hydroxyethyl methacrylate) by Means of Anionic Living Polymerization of Protected Monomers. <i>Macromol. Chem. Phys.</i> , 1994, 195:3213-24.		
	D15	OHGI, H, <i>et al.</i> Highly Isotactic Poly(vinyl alcohol). 2. Preparation and Characterization of Isotactic Poly(vinyl alcohol). <i>Macromolecules</i> , 1999, 32:2403		
	D16	OKAMURA, S, <i>et al.</i> The Cationic Polymerization of <i>t</i> -Butyl Vinyl Ether at Low Temperature and the Conversion into Polyvinyl Alcohol of Poly- <i>t</i> -butyl Vinyl Ether. <i>Makromol. Chem.</i> , 1962, 53:180-91.		
	D17	PASCH, H. Liquid Chromatography at the Critical Point of Adsorption – A New Technique for Polymer Characterization. <i>Macromol. Symp.</i> , 1996, 110:107-20.		

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NON PATENT LITERATURE DOCUMENTS			
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